



⑪ Publication number : 0 611 089 A3

⑫

EUROPEAN PATENT APPLICATION

② Application number : 94300769.0

⑤ Int. Cl.⁵: **G10K 11/16**

②② Date of filing : 02.02.94

(30) Priority : 11.02.93 US 16694

④3 Date of publication of application :
17.08.94 Bulletin 94/33

⑧ Designated Contracting States :
DE FR GB IT NL

**(88) Date of deferred publication of search report :
11.10.95 Bulletin 95/41**

71 Applicant : DIGISONIX, Inc.
8401 Murphy Drive
Middleton, Wisconsin 53562 (US)

(72) Inventor : Popovich, Steven R.
1915 Johnson Street
Stoughton, Wisconsin 53589 (US)
Inventor : Laak, Trevor A.
2749 Milwaukee
Madison, Wisconsin 53704 (US)
Inventor : Allie, Mark C.
1702 Bonner Trail
Oregon, Wisconsin 53575 (US)

⑦4 Representative : Burke, Steven David et al
R.G.C. Jenkins & Co.
26 Caxton Street
London SW1H 0RJ (GB)

(54) Active acoustic control system matching model reference.

(57) An acoustic system (20) includes a model reference (22) having a selectably programmable response, and an active model (24) including in combination an acoustic path (26) and an adaptive filter (28) such that the combination of the acoustic path (26) and the adaptive filter (28) adaptively models the model reference (22) such that the combined response of the acoustic path (26) and the adaptive filter (28) provides an active model response matching the response of the model reference (22).

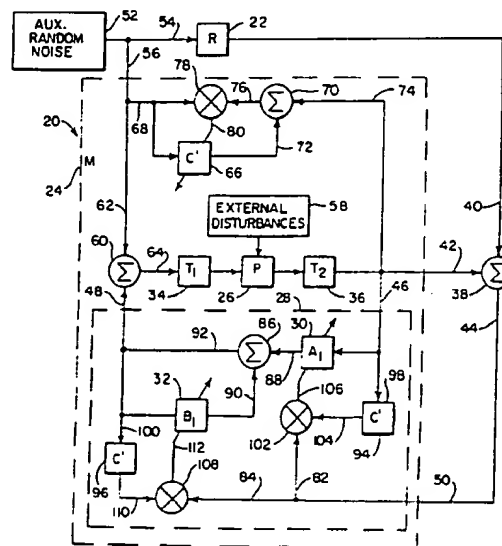


FIG. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 94 30 0769

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
D,A	ASTROM & WITTENMARK 'Adaptive Control' 1989, ADDISON-WESLEY PUBLISHING COMPANY, READING, MASSACHUSETTS, USA * page 105, line 2 - page 106, line 12; figure 4.1 *	1,24,26	G10K11/16
A	--- JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol.91, no.5, May 1992, NEW YORK US pages 2740 - 2747 F. ORDUÑA-BUSTAMANTE & P.A. NELSON 'An adaptive controller for the active absorption of sound'	1	
A	--- WO-A-91 13429 (NOISE CANCELLATION TECHNOLOGIES)		
A	--- US-A-2 043 416 (P. LUEG)		
A	--- GB-A-2 088 951 (LORD)		
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			G10K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 August 1995	Examiner Albertsson, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons A : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/92 (P04.001)